

LATITUDE 39°17'30"

11,217'

2,611' TO BOTTOM HOLE

LATITUDE 39°20'00"

LONGITUDE 80°52'30"

6,718'

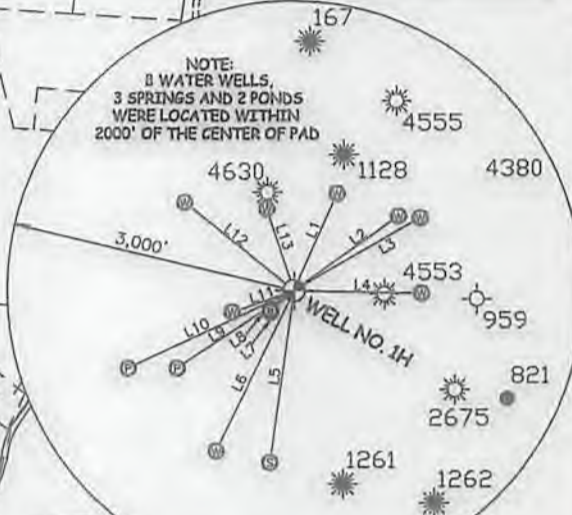
13,745' TO BOTTOM HOLE

LONGITUDE 80°50'00"

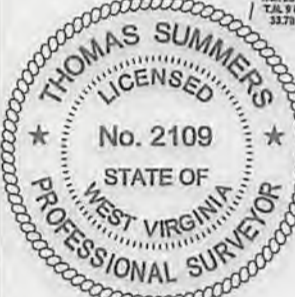
Antero Resources Corporation
Well No. Murphy Unit 1H
47-017-06641 (AS DRILLED)

AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 284,594ft E: 1,611,323ft
LAT: 39°16'23.60" LON: 80°52'22.64"
BOTTOM HOLE INFORMATION:
N: 292,792ft E: 1,608,258ft
LAT: 39°17'44.17" LON: 80°53'03.21"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE.
ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 4,347,114m E: 510,973m
BOTTOM HOLE INFORMATION:
N: 4,349,596m E: 509,998m

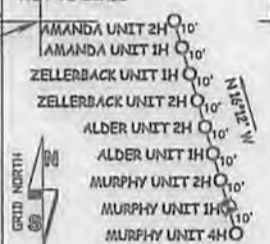


LINE	BEARINGS	DISTANCE
L1	N 22°51' E	1132.7
L2	N 63°10' E	1942.9
L3	N 62°01' E	1627.2
L4	N 62°48' E	1317.1
L5	S 09°20' W	1774.7
L6	S 20°22' W	2521.2
L7	S 02°30' W	918.0
L8	S 87°30' W	354.1
L9	S 87°54' W	1455.9
L10	S 88°04' W	1500.9
L11	S 72°52' W	1506.2
L12	N 00°20' W	1486.9
L13	N 10°00' W	308.2



- 1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
- 2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALLEGHENY SURVEYS, INC.
- 3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
- 4. WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES.
- 5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

PAD LAYOUT
NOT TO SCALE



JOB # 14-079WA
DRAWING # MURPHY1H
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND

---	Surface Owner Boundary Lines +/-
- - -	Interior Surface Tracts +/-
X	Existing Fence
⊕	Found monument, as noted
○	Proposed Well Path
⊗	As Drilled Well Path



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WILLOW LAND SURVEYING PLLC
220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

*I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 989' AS DRILLED WATERSHED NORTH FORK HUGHES RIVER
QUADRANGLE WEST UNION 7.5 DISTRICT CENTRAL COUNTY DODDGE
SURFACE OWNER ROBERT L. HOLLAND JR. ACREAGE 6.60 ACRES +/-
OIL & GAS ROYALTY OWNER ANNA BARKER ET AL; ROBERT SMITH ET AL; G.F. WILLIAMSON ET UX; WYSRA; LEASE ACREAGE 127 ACRES; 75 ACRES; 50 ACRES; 301.19 ACRES;
EZRA J. GARNER; ROBERT DOAK ET AL; DELORES FLETCHER; FREDDIE JAMES ET UX; HARRY WILLIAMSON ET AL; HARRY WILLIAMSON 11 ACRES; 71 ACRES; 40 ACRES; 34 ACRES; 176 ACRES; 166 ACRES;
PROPOSED WORK: DRILL CONVERT DRILL DEEPER DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) AS-DRILLED
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,400' TVD 15,200' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
DENVER, CO 80202 CHARLESTON, WV 25313

11/10/2017